

Centers for Disease Control and Prevention (CDC)
National Center for Immunization and Respiratory Diseases (NCIRD)
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Guidance for Vaccinating Children during the 2012 Pentacel[®] and Daptacel[®] Shortage

Sanofi Pasteur's Pentacel (DTaP-IPV/Hib) and Daptacel (DTaP) are expected to be in short supply throughout the summer of 2012. Practices using these vaccines may need to find alternatives during the shortage.

Providers should continue to follow the recommended immunization schedule and ensure that patients receive all recommended doses of DTaP, Hib, and polio vaccines.

Vaccines for Children (VFC) providers should contact their state or local immunization program for guidance about ordering vaccines.

Options include:

- Using DTaP, IPV, and Hib vaccines to complete a series begun with Pentacel. There is a sufficient supply of these products to meet the anticipated demand.
- Other combination vaccines containing DTaP and Hib vaccines may also be used to complete the series.

Considerations when changing vaccine products:

- The Advisory Committee on Immunization Practices (ACIP) recommends using the same brand of vaccine for all doses of a vaccination series, when feasible. If providers do not know or do not have available the brand of vaccine previously administered, another brand may be used.
- With the exception of Hiberix, which is licensed only for use as the last dose (booster) in the Hib series, Hib vaccines are interchangeable. If different brands of a vaccine require different numbers of doses, use the higher number when mixing brands. The Hib vaccine component in Pentacel is licensed as a four-dose series.

Additional vaccine information and sample schedules using single component and combination vaccines for children who have already received one, two, or three doses of Pentacel are available on the <http://www.cdc.gov/vaccines/vac-gen/shortages/default.htm#1>.

Use of brand names is for identification purposes only and does not imply an endorsement by the Centers for Disease Control and Prevention.

Sample Schedules for Using DTaP, Hib, and IPV Vaccines When Vaccinating Children during the 2012 Pentacel Shortage

The following are sample schedules for completing a series using DTaP, Hib, and IPV vaccines for children previously vaccinated with Pentacel (DTaP/IPV-Hib).

- When assessing for needed vaccines, ensure that minimum intervals between doses and the minimum age have been met for each.

1 prior dose of Pentacel

| 2 months | 4 months | 6 months | 12-15 months | 15-18 months | 4-6 years |
|----------|----------|----------|--------------|--------------|-----------|
| Pentacel | DTaP | DTaP | | DTaP* | DTaP |
| | Hib | Hib | Hib | | |
| | IPV | IPV | | | IPV |

2 prior doses of Pentacel

| 2 months | 4 months | 6 months | 12-15 months | 15-18 months | 4-6 years |
|----------|----------|----------|--------------|--------------|-----------|
| Pentacel | Pentacel | DTaP | | DTaP* | DTaP |
| | | Hib | Hib | | |
| | | IPV | | | IPV |

3 prior doses of Pentacel

| 2 months | 4 months | 6 months | 12-15 months | 15-18 months | 4-6 years |
|----------|----------|----------|--------------|--------------|-----------|
| Pentacel | Pentacel | Pentacel | | DTaP* | DTaP |
| | | | Hib | | |
| | | | IPV | | |

*The 4th dose of DTaP can be given as early as 12 months of age, provided at least 6 months have elapsed since the 3rd dose.

| Vaccine | Use for |
|-----------------------------------|---|
| DTaP | Any dose in the series for children 6 weeks through 6 years of age |
| Hib (ActHIB, PedvaxHIB) | Any dose in the series for children 6 weeks through 4 years of age |
| Hib (Hiberix) | The last (booster) dose in the Hib series for children 12 months* through 4 years of age |
| IPV | Any dose in the polio series for persons 6 weeks of age and older |
| DTaP/IPV (Kinrix) | Dose 5 of DTaP and dose 4 of IPV for children 4 through 6 years of age. Do not use for doses 1 through 3 of DTaP and IPV or dose 4 of DTaP |

*Off label Advisory Committee on Immunization Practices recommendation

ActHIB, Hiberix, Kinrix, PedvaxHIB, and Pentacel are the trademarks of their respective owners. Use of brand names is for identification purposes only and does not imply an endorsement by the Centers for Disease Control and Prevention.

Sample Schedule for Using Pediarix (DTaP-IPV-HepB) and Hib Vaccines When Vaccinating Children During the 2012 Pentacel® Shortage

The following are sample schedules for completing a series using Pediarix (DTaP-IPV-HepB) and Hib vaccines for children previously vaccinated with Pentacel (DTaP/IPV-Hib).

- When using combination vaccines, ensure that minimum intervals between doses and the minimum age have been met for each of the component vaccines.

1 prior dose of Pentacel

| Birth | 1 month | 2 months | 4 months | 6 months | 12-15 months | 15-18 months | 4-6 years |
|-------|---------|----------|----------|-----------|--------------|--------------|-----------|
| HepB | HepB | | Pediarix | Pediarix* | | DTaP** | DTaP |
| | | Pentacel | | | | | |
| | | | Hib | Hib | Hib | | |

2 prior doses of Pentacel

| Birth | 1 month | 2 months | 4 months | 6 months | 12-15 months | 15-18 months | 4-6 years |
|-------|---------|----------|----------|----------|--------------|--------------|-----------|
| HepB | HepB | | Pentacel | Pediarix | | DTaP** | DTaP |
| | | Pentacel | | | | | |
| | | | | Hib | Hib | | |

3 prior doses of Pentacel

| Birth | 1 month | 2 months | 4 months | 6 months | 12-15 months | 15-18 months | 4-6 years |
|-------|---------|----------|----------|----------|--------------|--------------|-----------|
| HepB | HepB | | Pentacel | Pentacel | HepB | DTaP** | DTaP |
| | | Pentacel | | | | | |
| | | | | | Hib | | |

*Administration of a 4th dose of HepB vaccine is permissible when a combination vaccine containing HepB is given after the birth dose.

** The 4th dose of DTaP can be given as early as 12 months of age, provided at least 6 months have elapsed since the 3rd dose. Off label Advisory Committee on Immunization Practices recommendation.

| Vaccine | Use for |
|---------------------------------|---|
| DTaP | Any dose in the 5-dose series for children 6 weeks through 6 years of age |
| DTaP/IPV/HepB (Pediarix) | Doses 1, 2, and 3 of DTaP and IPV; any dose of HepB for children 6 weeks through 6 years of age |
| HepB | Any dose in the HepB series for children at birth and older |
| Hib (ActHIB, PedvaxHIB) | Any dose in the Hib series for children 6 weeks through 4 years of age |
| Hib (Hiberix) | The last (booster) dose in the Hib series for children 12 months* through 4 years of age |
| IPV | Any dose in the polio series for persons 6 weeks of age and older |
| DTaP/IPV (Kinrix) | Dose 5 of DTaP and dose 4 of IPV for children 4 through 6 years of age Do not use for doses 1 through 3 of DTaP and IPV or dose 4 of DTaP |

*Off label Advisory Committee on Immunization Practices recommendation

For further information, contact your state or local health department immunization program.

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References

2012 Recommended Immunization Schedule for Persons 0 through 6 Years of Age
<http://www.cdc.gov/vaccines/recs/schedules/downloads/child/0-6yrs-schedule-pr.pdf>

MMWR. Licensure of a Haemophilus influenzae Type b (Hib) Vaccine (Hiberix) and Updated Recommendations for Use of Hib Vaccine 58(36); 1008-1009
http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5836a5.htm?s_cid=mm5836a5_e

Advisory Committee on Immunization Practices General Recommendations on Immunization
<http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf>

CDC Current Vaccine Shortages and Delays web page
<http://www.cdc.gov/vaccines/vac-gen/shortages/default.htm>

Directory of State Health Department immunization program websites
<http://www.cdc.gov/vaccines/spec-grps/prog-mgrs/grantee-imz-websites.htm>

Epidemiology and Prevention of Vaccine-Preventable Diseases “Pink Book” 12th Edition
<http://www.cdc.gov/vaccines/pubs/pinkbook/index.html>

Sanofi Pasteur Supply Notification Letter to Providers
https://www.vaccineshoppe.com/assets/pdf/Important%20Supply%20Information_MKT24949.pdf